Anticlinal, Assessment Unit 31440102 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

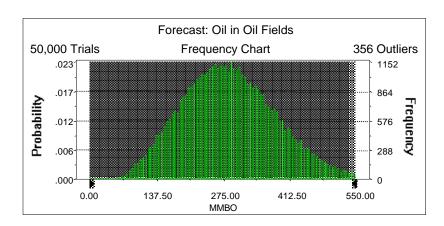
Field	MFS	S Prob.	Undiscovered Resources								Largest Undiscovered Field							
Field Type			Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	5	1.00	141	286	460	291	42	92	166	96	2	5	11	6	25	48	102	53
Gas Fields	30						276	567	1,078	609	11	24	51	27	55	87	169	96
Total		1.00	141	286	460	291	318	659	1,244	705	13	30	62	33				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 550.00 MMBO Entire range is from 40.77 to 735.46 MMBO After 50,000 trials, the standard error of the mean is 0.43

<u>Value</u> 50000 291.07 285.51
203.31
96.57
9,325.83
0.34
2.92
0.33
40.77
735.46
694.69
0.43



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

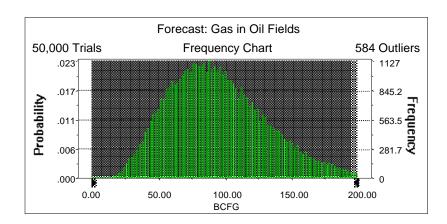
<u>Percentile</u>	<u>MMBO</u>
100%	40.77
95%	141.48
90%	168.65
85%	189.61
80%	206.21
75%	221.25
70%	235.04
65%	248.38
60%	260.79
55%	273.20
50%	285.51
45%	298.05
40%	310.98
35%	324.10
30%	338.83
25%	354.44
20%	372.23
15%	392.78
10%	419.35
5%	459.57
0%	735.46

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 200.00 BCFG Entire range is from 11.20 to 295.07 BCFG After 50,000 trials, the standard error of the mean is 0.17

Statistics: Trials Mean Median	<u>Value</u> 50000 96.42 92.05
Mode	
Standard Deviation	38.15
Variance	1,455.49
Skewness	0.69
Kurtosis	3.54
Coefficient of Variability	0.40
Range Minimum	11.20
Range Maximum	295.07
Range Width	283.87
Mean Standard Error	0.17



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

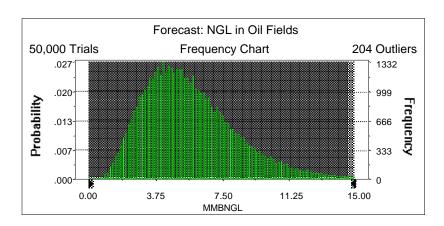
<u>Percentile</u>	<u>BCFG</u>
100%	11.20
95%	42.34
90%	50.89
85%	57.51
80%	63.15
75%	68.47
70%	73.42
65%	78.08
60%	82.73
55%	87.38
50%	92.05
45%	96.77
40%	101.62
35%	107.00
30%	112.96
25%	119.48
20%	126.94
15%	136.02
10%	147.76
5%	166.10
0%	295.07
270	270.07

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 15.00 MMBNGL Entire range is from 0.54 to 22.05 MMBNGL After 50,000 trials, the standard error of the mean is 0.01

Statistics:	<u>Value</u>
Trials	50000
Mean	5.79
Median	5.38
Mode	
Standard Deviation	2.62
Variance	6.86
Skewness	0.92
Kurtosis	4.12
Coefficient of Variability	0.45
Range Minimum	0.54
Range Maximum	22.05
Range Width	21.50
Mean Standard Error	0.01



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

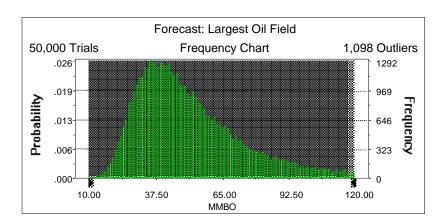
<u>Percentile</u>	<u>MMBNGL</u>
100%	0.54
95%	2.28
90%	2.80
85%	3.20
80%	3.55
75%	3.87
70%	4.18
65%	4.47
60%	4.77
55%	5.07
50%	5.38
45%	5.70
40%	6.03
35%	6.41
30%	6.81
25%	7.27
20%	7.79
15%	8.45
10%	9.31
5%	10.75
0%	22.05

Forecast: Largest Oil Field

Summary:

Display range is from 10.00 to 120.00 MMBO Entire range is from 11.08 to 149.98 MMBO After 50,000 trials, the standard error of the mean is 0.11

Statistics:	<u>Value</u>
Trials	50000
Mean	53.29
Median	47.52
Mode	
Standard Deviation	23.82
Variance	567.51
Skewness	1.29
Kurtosis	4.76
Coefficient of Variability	0.45
Range Minimum	11.08
Range Maximum	149.98
Range Width	138.90
Mean Standard Error	0.11



Forecast: Largest Oil Field (cont'd)

Percentiles:

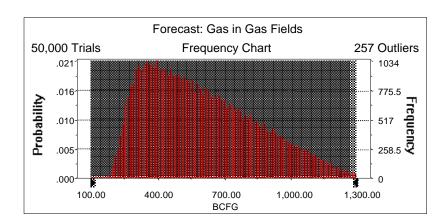
Percentile	MMBO
100%	11.08
95%	25.49
90%	29.00
85%	31.68
80%	34.05
75%	36.25
70%	38.43
65%	40.60
60%	42.84
55%	45.11
50%	47.52
45%	50.25
40%	53.17
35%	56.32
30%	60.05
25%	64.36
20%	69.39
15%	76.14
10%	86.09
5%	102.34
0%	149.98

Forecast: Gas in Gas Fields

Summary:

Display range is from 100.00 to 1,300.00 BCFG Entire range is from 178.37 to 1,615.77 BCFG After 50,000 trials, the standard error of the mean is 1.13

Statistics: Trials Mean Median	<u>Value</u> 50000 608.87 566.83
Mode	
Standard Deviation	251.91
Variance	63,458.00
Skewness	0.61
Kurtosis	2.65
Coefficient of Variability	0.41
Range Minimum	178.37
Range Maximum	1,615.77
Range Width	1,437.41
Mean Standard Error	1.13



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

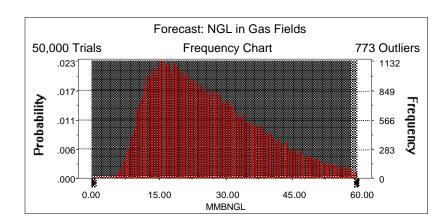
<u>Percentile</u>	<u>BCFG</u>
100%	178.37
95%	275.64
90%	311.55
85%	342.35
80%	372.37
75%	402.25
70%	433.43
65%	465.24
60%	497.95
55%	531.89
50%	566.83
45%	604.89
40%	644.28
35%	686.15
30%	731.30
25%	780.16
20%	835.74
15%	898.59
10%	974.36
5%	1,078.05
0%	1,615.77

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 60.00 MMBNGL Entire range is from 4.25 to 93.13 MMBNGL After 50,000 trials, the standard error of the mean is 0.06

Statistics: Trials Mean Median	<u>Value</u> 50000 26.81 24.36
Mode	
Standard Deviation	12.59
Variance	158.63
Skewness	0.88
Kurtosis	3.52
Coefficient of Variability	0.47
Range Minimum	4.25
Range Maximum	93.13
Range Width	88.88
Mean Standard Error	0.06



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

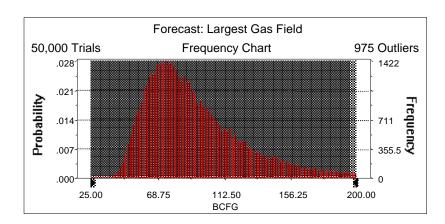
<u>Percentile</u>	<u>MMBNGL</u>
100%	4.25
95%	10.88
90%	12.70
85%	14.20
80%	15.63
75%	16.99
70%	18.36
65%	19.76
60%	21.20
55%	22.76
50%	24.36
45%	26.12
40%	27.95
35%	29.83
30%	31.96
25%	34.37
20%	37.13
15%	40.32
10%	44.49
5%	51.06
0%	93.13

Forecast: Largest Gas Field

Summary:

Display range is from 25.00 to 200.00 BCFG Entire range is from 37.50 to 249.94 BCFG After 50,000 trials, the standard error of the mean is 0.16

Statistics:	<u>Value</u>
Trials	50000
Mean	96.03
Median	87.36
Mode	
Standard Deviation	35.54
Variance	1,263.20
Skewness	1.38
Kurtosis	5.18
Coefficient of Variability	0.37
Range Minimum	37.50
Range Maximum	249.94
Range Width	212.44
Mean Standard Error	0.16



Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	37.50
95%	55.08
90%	60.27
85%	64.11
80%	67.63
75%	70.88
70%	74.02
65%	77.14
60%	80.33
55%	83.73
50%	87.36
45%	91.07
40%	95.28
35%	100.15
30%	105.57
25%	112.08
20%	119.78
15%	129.49
10%	144.24
5%	168.66
0%	249.94

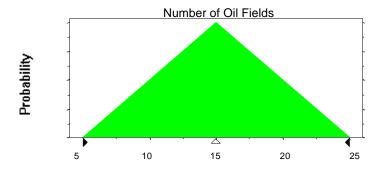
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameter	Triangular	distribution	with	parameters
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Minimum	5
Likeliest	15
Maximum	25

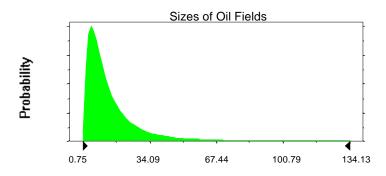
Selected range is from 5 to 25 Mean value in simulation was 15



Assumption: Sizes of Oil Fields

Lognormal distribution with param	neters:	Shifted parameters
Mean	14.54	19.54
Standard Deviation	15.35	15.35
Selected range is from 0.00 to 145	5.00	5.00 to 150.00
Mean value in simulation was 14.4	0	19.4

Assumption: Sizes of Oil Fields (cont'd)

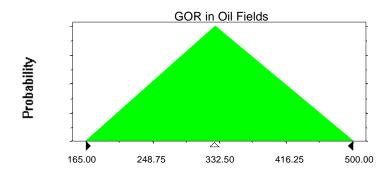


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	165.00
Likeliest	327.46
Maximum	500.00

Selected range is from 165.00 to 500.00 Mean value in simulation was 331.36

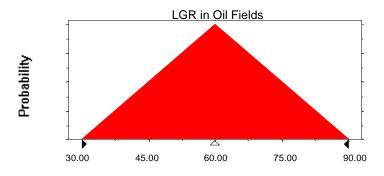


Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	30.00
Likeliest	60.00
Maximum	90.00

Selected range is from 30.00 to 90.00 Mean value in simulation was 60.03



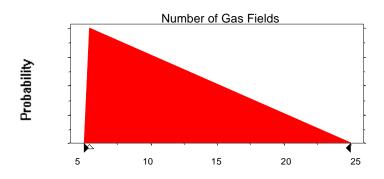
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	5
Likeliest	5
Maximum	25

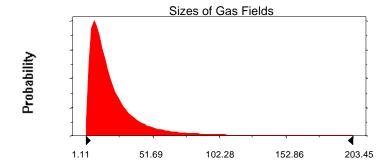
Selected range is from 5 to 25 Mean value in simulation was 12

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parai	meters:	Shifted parameters
Mean	21.88	51.88
Standard Deviation	23.25	23.25
Selected range is from 0.00 to 22	20.00	30.00 to 250.00
Mean value in simulation was 21.	64	51.64

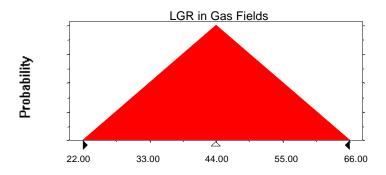


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00 Mean value in simulation was 44.01



End of Assumptions

Simulation started on 12/8/98 at 12:52:54 Simulation stopped on 12/8/98 at 13:13:06